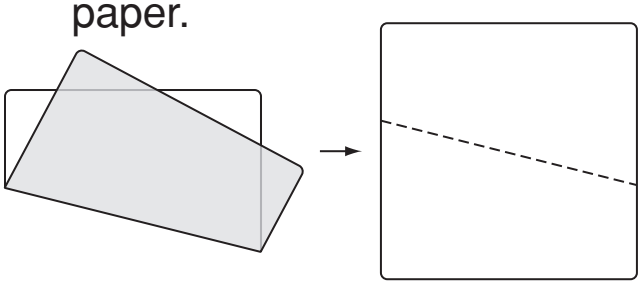
EXPLORATION

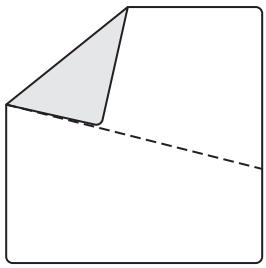
1-3 Measuring and Constructing Angles

Use rectangular pieces of paper and a protractor for this Exploration.

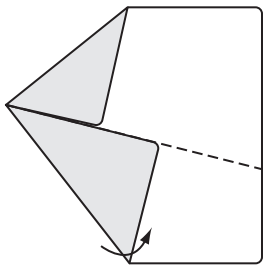
1. Fold the paper and make a crease. Then unfold the paper.



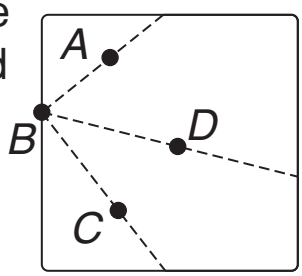
2. Fold down the top of the paper so the edge aligns with the crease.



3. Fold up the bottom of the paper so the edge aligns with the crease.



4. Unfold the paper and label the angles as show.



5. Measure $\angle ABC$, $\angle ABD$, and $\angle DBC$. Record the results.

6. Repeat Steps 1 through 5 with a new piece of paper.

THINK AND DISCUSS

7. **Describe** what you notice about the measure of $\angle ABC$.

8. **Discuss** the relationship among the measures of $\angle ABC$, $\angle ABD$, and $\angle DBC$.

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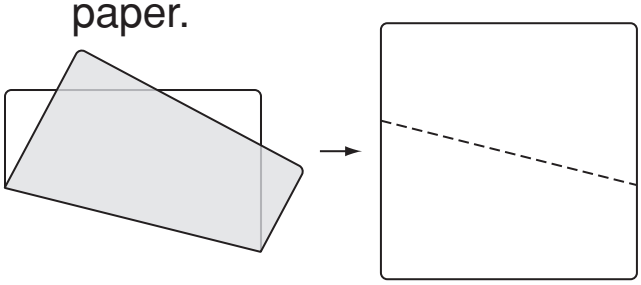

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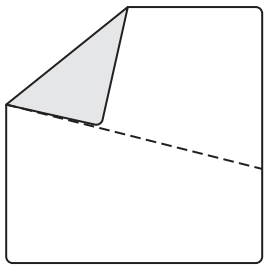

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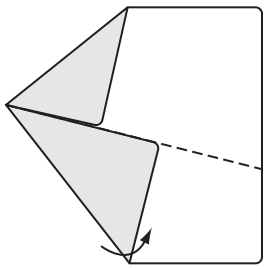

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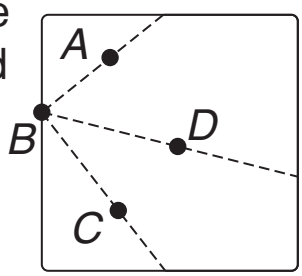

5. Measure $\angle ABC$, $\angle ABD$, and $\angle DBC$. Record the results.

6. Repeat Steps 1 through 5 with a new piece of paper.

THINK AND DISCUSS

7. **Describe** what you notice about the measure of $\angle ABC$.

8. **Discuss** the relationship among the measures of $\angle ABC$, $\angle ABD$, and $\angle DBC$.

7. $\angle ABC$ always measures 90°

8. $m\angle ABD + m\angle DBC = m\angle ABC$